

JUN 19 2001

S&MA Mission Services Task Directive

Control No. 004 TD QS21-SVTD-000	PROJECT CODE: 2 nd . Generation Launch Vehicle	Contract No. NAS8-2 nd GEN
Originator's Signature: TA-7 Mike Whitley <i>Kyle Daniel for</i>	Date: 5/15/2001	Originator's Priority: High
Office Manager's Signature: QS21 Space Vehicle Manager <i>Vin Vaparel</i>	Date: 5-18-01	
COTR's Approval: <i>Terry J. Ho</i>	Date: 6-1-01	
Subject: Safety & Mission Assurance support for the 2 nd . Generation Launch Vehicle - TA-7		

Task Description:

Safety (WBS-list applicable)

- 1) Support 2nd. Gen TA teams to assure safety requirements understood and incorporated in design
- 2) Support development of S&MA Plan
- 3) Support Milestone Reviews (SRR, PDR, CDR, SRP, etc)
- 4) Review Safety Data Package/Hazard Analysis provided by TA contractors
- 5) Support Safety Review Panels (NASA headquarters and Military Ranges, as applicable)
- 6) Evaluate Software Safety effort of the contractors for the TA projects
- 7) Evaluate project design changes for safety impacts
- 8) Review Verification Plans/procedure/closures
- 9) Ongoing Safety Assessment of contractor design through all project phases

R&M (WBS-list applicable)

- 1) Support development of S&MA Plan
- 2) Support TA project teams
- 3) Support Milestone Reviews, (SRR, PDR, CDR, etc)
- 4) Review accuracy of contractor provided FMEAS, Fault Trees, Predictions and Risk Assessments
- 5) Support PRA evaluations provided by the contractors

Quality (WBS-list applicable)

- 1) Support TA Team meetings and TIMs
- 2) Support development of S&MA Plan and prepare or evaluate the Project Quality Plan
- 3) Participate in Milestone Reviews (SRR, PDR, CDR, DCR, AR, FRR, etc.)
- 4) Perform inspections and assessments of contractor processes and hardware
- 5) Evaluate contractor Software Quality Assurance effort
- 6) Support audits and Acceptance Reviews
- 7) Evaluate engineering changes
- 8) Support Failure and Problem Analyses and the non-conforming materials process
- 9) Support hardware and Test Readiness Reviews

Project Assurance (WBS-list applicable)

- 1) Coordinate the HEI / S&MA support activities with the NASA S&MA TA leads
- 2) Participate in the milestone reviews, data reviews, safety reviews and readiness reviews and operations
- 3) Coordinate the HEI S&MA activities with the S&MA project lead to include resource statusing
- 4) Brief TA Project Management on technical issues on as required basis
- 5) Support the development of the 2nd. Gen requirements and verification

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004 TAD

Control No. GS2T-SVTD-000

PROJECT CODE: 2nd Gen

Contract No. NAS8-2nd GEN

Deliverables:

Safety

- 1) Safety inputs to the S&MA Plan
- 2) Safety documentation to support Milestone Reviews (generation and closure of Review Item Discrepancies)
- 3) Safety Data Package as appropriate for various Safety Reviews
- 4) Document and brief safety deficiencies identified through out the project phases

R&M

- 1) Reliability inputs to S&MA Plan, engineering changes, etc.
- 2) Reliability review comments to Milestone Review documentation
- 3) Evaluate contractor provided FMEAs, Fault Trees, PRAs and Risk Assessment
- 4) Provide milestone review support (generation and closure of Review Item Discrepancies)

Quality

- 1) Quality input to S&MA Plan, Project Quality Plan, engineering changes, problem analyses, etc.
- 2) Review comments for Milestone Review documentations
- 3) Inspection reports
- 4) Document findings and recommended correcting actions resulting from contractor audits and assessments
- 5) Provide milestone review support (generation and closure of Review Item Discrepancies)

Project Assurance

- 1) Provide status of functional discipline support to the TA's to S&MA
- 2) Identify areas where addition FTE resources are required and facilitate implementation of the additional resources
- 3) Provide milestone review support (generation and closure of Review Item Discrepancies)

Schedules/Duration:

- 1) Support schedules as defined by the Project
- 2) *Define the anticipated life of project requiring support*

Resource Estimate:

(b)(4)

*** Additional in-house tasks may be identified and will be negotiated at a later date**

Report Progress To: S&MA Project Lead

Frequency of Report:
Weekly